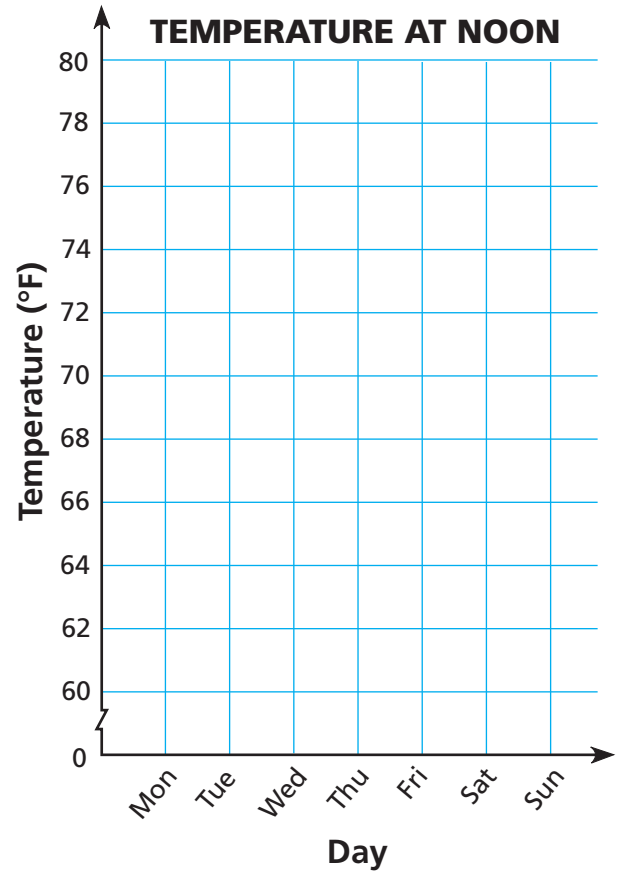


Graphing

NCTM Standards 1, 3, 6, 7, 8, 9, 10

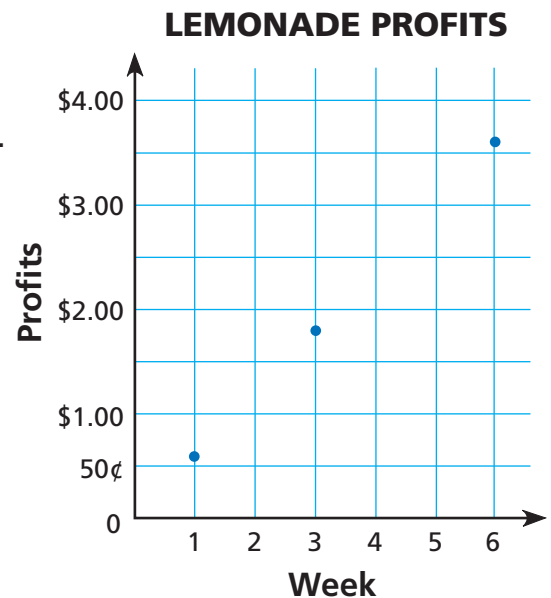
Make a graph to solve each problem.

- Deb checks the temperature every day at noon. She noticed that the temperature has been dropping at a constant rate all week. On Tuesday it was 72°F and on Friday it was 63°F . What was the temperature on Monday?



- Jayne cannot remember her profits from selling lemonade, but she remembers she had a constant increase in profits for each week. Fill in the table of her weekly profits.

Week	Profits
1	60¢
2	
3	\$1.80
4	
5	
6	\$3.60



Find a rule to describe this pattern by making a graph.

Picture 1
 $N = 1$

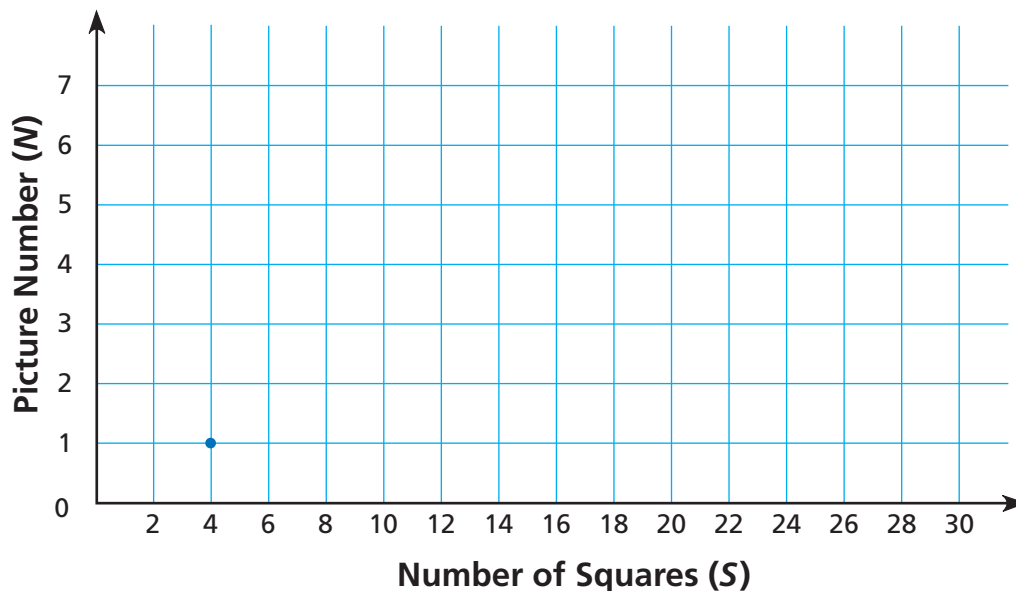
Picture 2
 $N = 2$

Picture 3
 $N = 3$

Picture 4
 $N = 4$

3 Make a graph using the number of small squares as the first coordinate and the picture number as the second coordinate.

A SEQUENCE OF SQUARES



4 Circle a rule that correctly describes the number of squares, S , in the N th picture. (Note: There is more than one correct rule.)

$S = 4(N + 1)$

$S = N \times N - N$

$S = N + N + N + N$

$S = N + (N + 1) + (N + 1)$

$S = 4N$

$S = 2 \times (N + 1) + 2 \times (N - 1)$



5 **Challenge** How many squares would the 100th picture have? How do we know? _____
